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APPLICANT : RES DEV CORP OF JAPAN;

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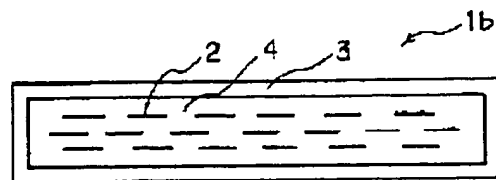
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TITLE : OXIDE SUPERCONDUCTOR WIRE  
AND MANUFACTURE THEREOF

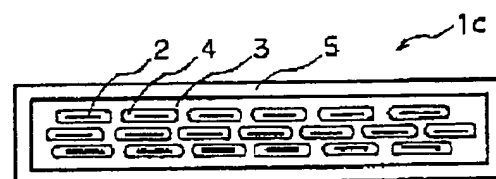
(a)



(b)



(c)



ABSTRACT : PURPOSE: To provide an oxide superconductor with high critical current density, high mechanical strength to the bending strain and the stress at the time of handling, and low a.c loss.

CONSTITUTION: Oxide superconductor wires 1a, 1b, 1c contain stabilizing metals 3, 4 which cover an oxide superconductor filament 2 and which are selected from a Ag-Mn alloy containing 0.01-1 atomic % of Mn, a Ag-Au-Mn alloy containing 1-30 atomic % of Au and 0.01-1 atomic % of Mn, a Ag-Sb alloy containing 0.01-5 atomic % of Sb, a Ag-Au-Sb alloy containing 1-30 atomic % of Au and 0.01-5 atomic % of Sb, a Ag-Pb alloy containing 0.01-3 atomic % of Pb, a Ag-Au-Pb alloy containing 1-30 atomic % of Au and 0.01-3 atomic % of Pb, and a Ag-Au-Bi alloy containing 1-30 atomic % of Au and 0.01-3 atomic % of Bi.

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